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# PATENT SPECIFICATION



Application Date: July 26, 1927. No. 19,843/27.

280,832

Complete Accepted: Nov. 24, 1927.

## COMPLETE SPECIFICATION.

### Improvements in and relating to Walls and Roofs of Portable Buildings.

We, LEABANK MANUFACTURING COMPANY LIMITED, of Charlton Meade Works, Hoddesdon, Herts, a British company, and FREDERICK WILLIAM KENT, of The Hollies, Ware Road, Hoddesdon, Herts, a British subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to portable buildings, such as those commonly used for garages, workshops and the like, of the type in which the walls and/or roofs are formed of panels of sheet material clamped to or secured between post or rafter members which act as beams to resist the transverse forces acting upon the panels.

By portable building is meant one which is readily assembled from relatively light component parts which can be readily packed together for transport; such buildings can relatively easily be dismembered for moving to another site but are not necessarily built upon a platform provided with wheels or other means to facilitate transport.

The invention is particularly applicable to buildings of the above type in which the panels are formed of metal, asbestos cement, or other fire-resisting material and has for its object to provide an improved construction involving post or rafter members of light metal sections.

In the improved construction in accordance with the present invention, a rafter or post member comprises two trough-shaped members, one of which is inverted, which are clamped along their edges to panel sheet members and form a beam section of effective depth corresponding to the combined depth of the two trough-shaped members.

The construction in accordance with this invention is to be distinguished from that which has been employed in more permanent forms of construction in which inverted trough-shaped members have been clamped

between slabs and the space filled with concrete or the like; in such constructions the trough-shaped members merely act as a casing or mould for the post or beam proper.

In the accompanying drawings which illustrate a preferred embodiment of the invention,

Fig. 1 represents a cross-section through a post or rafter member employing trough-shaped members of semi-circular form.

Fig. 2 represents a plan view of a portion of the parts shown in Fig. 1.

Referring to these drawings the sheets *c*, *d* forming the panels of the wall or roof are clamped between metal trough-shaped members *a*, *b* of semi-circular form by means of bolts *e* and nuts *f* which are provided at suitable longitudinal intervals, washers *g*, *h* being preferably provided. The sheets *c*, *d* preferably extend close to the bolts *e* and it will be seen that these sheets are gripped at points *x* by the members *a*, *b*; the latter are therefore enabled to function as a hollow beam of depth equal to the combined depth of the two trough-shaped members.

Although it is preferred to employ troughs of semi-circular shape, any other trough shape may be employed which will ensure that the sheets will be gripped between the edges of the sheet material, and if preferred the interior and exterior trough-shaped members may be different in shape.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A rafter or post member for a portable building comprising two trough-shaped members, one of which is inverted, which are clamped along their edges to panel sheet members and form a beam section of effective depth corresponding to the combined depth of the two trough-shaped members substantially as described.

[Price 1/-]

Price 4s 6d

2. In a portable building the combination of two sheets of wall or roof panel material, a trough-shaped member engaging the sheets along its edges on one side thereof, 15  
5 an inverted trough-shaped member engaging the sheets along its edges on the other sides at points opposite to the points of engagement with the other trough-shaped member and means for clamping the two 20  
10 trough-shaped members together.
3. In a portable building the combination of a semi-circular trough-shaped sheet metal member, a like semi-circular trough-shaped inverted sheet metal member, panel sheets engaging between the edges of the troughs at each side and means for clamping the members together. 15
4. A rafter or post member for a portable building substantially as described and illustrated in the accompanying drawings. 20
- Dated the 26th day of July, 1927.
- ANDREWS, BEAUMONT & BYRNE,  
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Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1927.

[This Drawing is a reproduction of the Original on a reduced scale.]

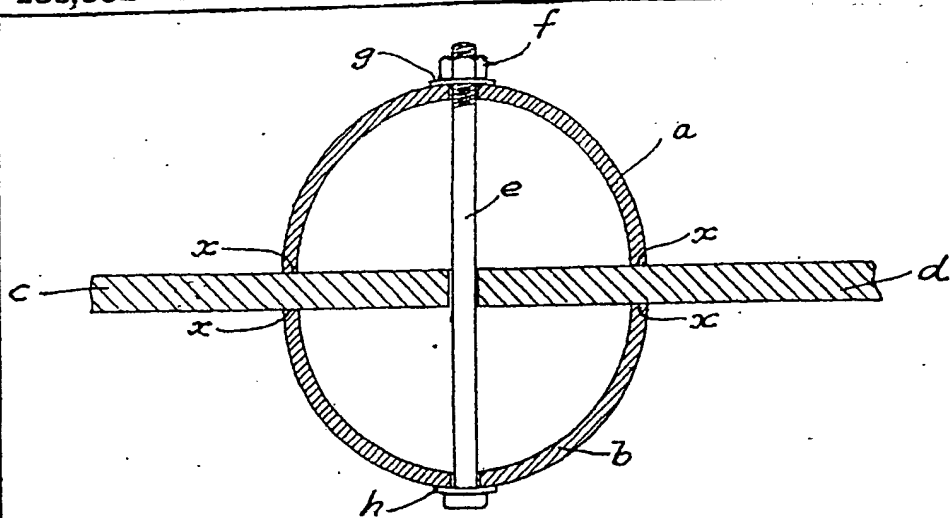


FIG. 1.

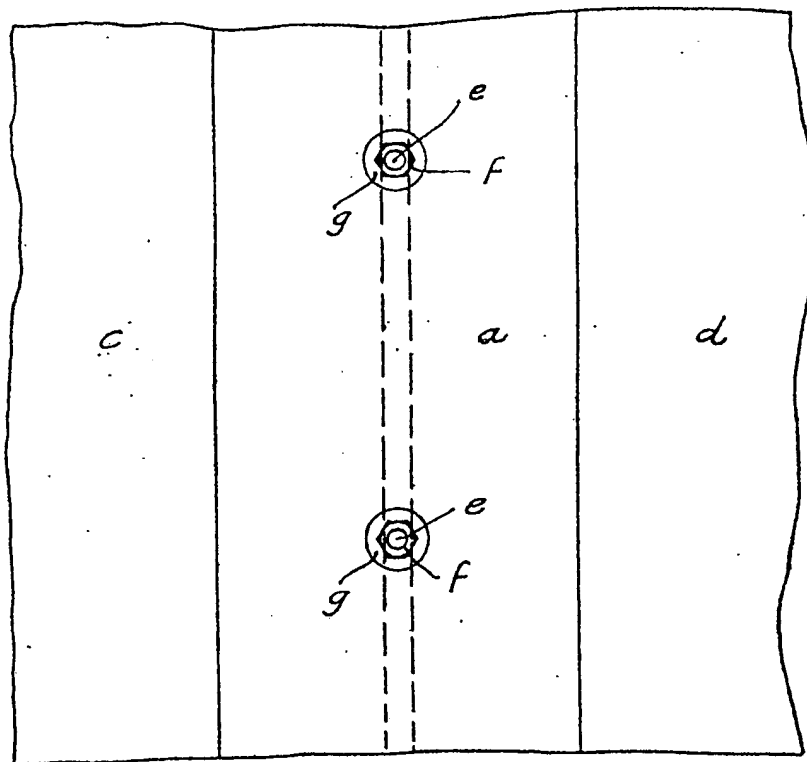


FIG. 2.

Charles & Read Ltd. Photo Litho.